



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/522,097 Applicant : Kibler et al

Filed: January 24, 2005

TC/A.U. : 1616

Examiner:

Docket No.: 3165-115 Customer No.: 6995 Confirmation No.: 9494

SUBMISSION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Submitted herewith is a copy of the translation of the International Preliminary Examination Report.

In the event that any fees are due with this paper, please charge our Deposit Account No. 02-2135.

Respectfully submitted,

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000053770		ent's file reference	FOR FURTHER A	on of Transmittal of International xamination Report (Form PCT/IPEA/416)				
International application No. PCT/EP 03/08114			International filing date 24.07.2003	e (day/mon	th/year)	Priority date (day/month/year) 24.07.2002		
A01N43	3/80	NGESELLSCHAFT e	both national classification	and IPC				
			amination report has be e applicant according to			ernational Preliminary Examining		
	This beer (see	report is also accompa	basis for this report an on 607 of the Administra	. sheets c	of the descripti	ion, claims and/or drawings which have rectifications made before this Authority the PCT).		
			elating to the following	items:				
!	⊠	Basis of the opinion						
11		Priority			_			
111				novelty, ir	iventive step a	and industrial applicability		
V	⊠ ⊠				d to novelty, in	eventive step or industrial applicability;		
VI		Certain documents ci	ted					
VII		Certain defects in the	international applicatio	n				
VIII		Certain observations	on the international app	olication				
Date of sub	omissio	n of the demand		Date of	completion of th	nis report		
19.12.20	03			28.12.	2004			
	examir Eur	address of the internation ning authority: opean Patent Office - P.B	. 5818 Patentlaan 2	Authoriz	ed Officer	John State Comment		
ര്വി	NL-	2280 HV Rijswijk - Pays E +31 70 340 - 2040 Tx: 31	3as	Fort, N	4			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/08114

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	scription, Pages							
	1-5	51	as originally filed						
	Cla	aims, Numbers							
	1-3	35	as originally filed						
2.	. Wit	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	The	These elements were available or furnished to this Authority in the following language: , which is:							
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of pub	lication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).						
3.	Wit inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the nternational preliminary examination was carried out on the basis of the sequence listing:							
		contained in the inte	rnational application in written form.						
		filed together with th	e international application in computer readable form.						
		furnished subsequer	ntly to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosion in the international application as filed has been furnished.							
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.						
4.	The	amendments have re	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been been considered to o	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this						
6.	Add	litional observations, i	f necessary:						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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N	/. Lac	k of unity of invention							
1. In response to the invitation to restrict or pay additional fees, the applicant has:									
		restricted the claims.							
	\boxtimes	paid additional fees.							
	paid additional fees under protest.								
		neither restricted nor paid add	ditional	fees.					
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.							
3.	This	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13. is							
		complied with.							
	\boxtimes	not complied with for the follo	wing re	easons:					
	see								
4.		onsequently, the following parts of the international application were the subject of international preliminary camination in establishing this report:							
	Ø	all parts.							
		the parts relating to claims Nos							
/ .	Rea:	asoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; ations and explanations supporting such statement							
	State	ement							
	Nove	elty (N)	Yes: No:	Claims Claims	9-11, 14-29 1-8, 12-13, 30-35				
Inve		entive step (IS)		Claims Claims	1-35				
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-35				

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item IV

Lack of unity of invention

The International Examining Authority (IEA) considers the present application to consist of multiple subject-matter as defined hereafter:

Subject I (claims 1-7 (partially), 8-11, 14-35(partially))

A synergistic herbicidal mixture comprising at least one 3-heterocyclyl-substituted benzoyl derivative of the formula I and at least the compound of the formula IIa

Subject II (claims 1-7 (partially), 12-13, 14-35 (partially))

A synergistic herbicidal mixture comprising at least one 3-heterocyclyl-substituted benzoyl derivative of the formula I and at least the compound of the formula IIb

The common technical feature linking the 2 inventions listed in the invitation to pay additional fees is that they all deal with synergistic herbicidal mixtures comprising a 3-heterocyclyl-substituted benzoyl derivative of the formula I together with a further herbicide, the second herbicide being a heterocyclic compound. This feature linking together the 2 inventions is known since synergistic herbicidal compositions comprising a compound of formula (I) together with a triazolpyrimidine sulfoanilide such as florasulam, flumetsulam or metosulam have been used in D1

(D1= Wo99/65314) (see D1, table 18). Therefore this feature is not a special technical feature in the sense of Rule 13(2) PCT. Since the chemical structures of the synergists of formula (IIa) and (IIb) are widely different, no other technical feature common to the two inventions listed above can be distinguished, which would possibly fulfil this requirement, Therefore there is no single inventive concept underlying the two inventions and the present application lacks unity.

Since the applicant has paid one additional fee in response to the invitation to pay additional fees, the two subjects identified above were the subject of international preliminary examination.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

EXAMINATION REPORT - SEPARATE SHEET

Subject I

D1 discloses synergistic herbicidal mixtures containing a 3-heterocyclic-substituted benzoyl derivative of the formula (I) and a triazolpyrimidine sulfonanilide such as florasulam, flumetsulam or metasulam (see D1, tables 2 and 18). Compounds Ia.3 and la.33 are particularly preferred (see D1, p.24 and examples). D1 is novelty destroying for the subject-matter of claims 1-8, 30-35 (Article 33 (2) PCT).

Given the teaching of D1, the problem underlying the present invention may be seen as providing alternative synergistic herbicidal mixtures containing a 3-heterocyclicsubstituted benzoyl derivative of the formula (I).

Since a synergistic effect has been demonstrated in D1 with a mixture of Ia.33 and metosulam, the use of a mixture containing la.33 and flumetsulam instead of metosulam as sulfonanilide compound (claim 9) cannot be considered as being inventive (Article 33(3) PCT).

As to the tertiary (claims 10-11, 14-26) or quaternary mixtures (claims 27-29), they cannot be considered as being inventive either since the synergistic herbicidal effect obtained by combining a compound of formula (I) with clopyralid, diflufenzopyr, a chloroacetanilide, or a triazine such as atrazine is known from D1 (see D1, tables 2, 38-51, 66-68) (Article 33(3) PCT).

The subject-matter of claims 1-11 and 14-35 is considered to be industrially applicable and the present application is therefore considered to satisfy the criterion set forth in Article 33(4) PCT.

Subject II

D1 discloses synergistic herbicidal mixtures containing a 3-heterocyclic-substituted benzoyl derivative of the formula (I) (preferably Ia.3 or Ia.33) and an auxin herbicide such as clopyralid (see D1, table 2). D1 is novelty destroying for the subject-matter of claims 1-7, 12-13 and 30-35 (Article 33(2) PCT).

Given the teaching of D1, the problem underlying the present invention may be seen as providing alternative synergistic herbicidal mixtures containing a 3-heterocyclicsubstituted benzoyl derivative of the formula (1).

The tertiary mixtures (claims 14-26) or quaternary mixtures (claims 27-29) cannot be

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considered as being inventive since the synergistic herbicidal effect obtained by combining a compound of formula (I) with a triazolpyrimidine sulfonanilide such as florasulam, flumetsulam or metsulam or with diflufenzopyr, a chloroacetanilide, or a triazine such as atrazine is known from D1 (see D1, tables 2, 38-51, 66-68) (Article 33(3) PCT).

The subject-matter of claims 1-7 and 12-35 is considered to be industrially applicable and the present application is therefore considered to satisfy the criterion set forth in Article 33(4) PCT.